Amendments to the Claims

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Please amend the claims as indicated below. All claims are listed below, with amended claims so marked. This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Previously Presented) A method for determining part replacement 1 1. 2 related information by an end user, comprising: 3 obtaining an associated identifier of a first part; 4 automatically coupling by a scanner interface the identifier of the first part to a 5 network enabled browser; 6 automatically retrieving by the browser from a remote database replacement 7 related information for the first part; 8 determining a replacement dependency between the first part and a second part 9 which should be replaced along with the first part; 10 automatically retrieving by the browser from the remote database, based at least 11 in part on the determined replacement dependency, replacement related information for 12 the second part; and 13 automatically displaying by the browser for the end user the retrieved 14 replacement related information for the first part.
 - 2. (Previously Presented) A method according to claim 1, wherein the identifier of the first part is a selected one of a UPC identifier, product-identifier mark, and textual product identifier.



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- 3. (Original) A method according to claim 1, further comprising: obtaining at least one user preference; and
- arranging the retrieved replacement related information according to the at least one user preference.
- 4. (Original) A method according to claim 3, wherein the user preference is a selected one of limiting price, limiting distance to travel to obtain a replacement part, limiting shipping time for the replacement part, limiting time to effect part replacement, and only displaying a vendor having the replacement part in stock.
- 5. (Original) A method according to claim 4, further comprising:
 categorizing the retrieved replacement related information into plural categories;
 wherein such categories are sorted according to the at least one user preference.
 - 6. (Original) A method according to claim 3, further comprising:
 identifying at least one provider within the retrieved replacement related
 information having a replacement part in stock; and
 prominently displaying the at least one provider;
 wherein prominently displaying includes sorting the retrieved replacement related
 information so that the at least one provider is at the top of such retrieved information.
 - 7. A method according to claim 1, in which the network connection is a link with the Internet, the method further comprising:

providing the associated identifier in a predetermined format, such format being a				
selected one of a bar-code format, a product-identifier mark, and a verbal identifier;				
wherein a portable bar-code scanner is utilized to obtain the associated identifier.				
8. (Previously Presented) A method according to claim 1, the method				
further comprising:				
contacting a cross-reference hub;				
searching the cross-reference hub with the associated identifier to obtain at least				
one additional product identifier; and				
automatically searching the remote database with the at least one additional				
product identifier to retrieve replacement related information for the first part.				
9. (Original) A method according to claim 8, wherein the associated				
identifier is a non-unique product category reference, and the at least one additional				
product identifier is partially unique.				
10. (Original) A method according to claim 8, further comprising:				
semantically analyzing the retrieved replacement related information; and				
reorganizing the retrieved replacement related information according such				
analysis.				
11. (Original) An article of manufacture, comprising:				
a computer readable medium;				
wherein encoded on the computer readable medium are instructions capable of				
causing a processor to perform the steps of claim 1.				

1	12. (Previously Presented) A method according to claim 1, in which the
2	replacement related information includes related part data identifying the second part.
3	13. (Previously Presented) A method according to claim 1, further
4	comprising:
5	determining a geographic location for the first part;
6	identifying vendors of a replacement part for the first part, each vendor having a
7	geographic location; and
8	sorting the vendors according to their geographic proximity to the first part.
9	14. (Original) A method according to claim 13, further comprising:
10	providing a proximity preference, such preference set to user election if such
11	election has been made, otherwise to a predetermined value; and
12	culling the retrieved replacement information according to the proximity
13	preference.
14	15. (Previously Presented) A method according to claim 13, further
15	comprising:
16	receiving user-specified price terms for a replacement part for the first part;
17	identifying, from the retrieved replacement information, a sales price offered by
18	vendors for the replacement part; and
19	culling the retrieved replacement information according to the user-specified
20	price terms.

1	16. (Original) An article of manufacture, comprising:
2	a computer readable medium;
3	wherein encoded on the computer readable medium are instructions capable of
4	causing a processor to perform the steps of claim 15.
5	17. (Previously Presented) A method according to claim 1, further
6	comprising:
7	receiving user-specified price terms for a replacement part for the first part;
8	identifying, from the retrieved replacement information, a sales price offered by
9	vendors for the replacement part; and
10	culling the retrieved replacement information according to the user-specified
11	price terms.
12	18. (Previously Presented) A method according to claim 1, the method
13	further comprising:
14	retrieving from the remote database replacement related concerns, such
15	concerns including warning and suggestions for a user seeking to replace the first part
16	retrieving from the remote database identification of related parts requiring
17	replacement along with the first part;
18	displaying the replacement related concerns to the user; and
19	notifying the user of the related parts requiring replacement.

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	19.	(Original)	A method according to claim 18, wherein an expert system
intera	ctively	displays the	replacement related concerns and notification of related parts
requi	ring rep	lacement.	

- 20. (Previously Presented) A system for determining part replacement related information by an end user, comprising:
- 6 a scanner for scanning an associated identifier of a part;
- 7 a network-enabled browsing arrangement; and
 - a scanner interface facilitating communication between the scanner interface and the network-enabled browsing arrangement, such communication including transferring the associated identifier to the browsing arrangement;
 - wherein the browser automatically connects to a remote database over a network to retrieve replacement related information for the first part, determines a replacement dependency between the first part and a second part which should be replaced along with the first part, and automatically retrieves, based at least in part on the determined replacement dependency, replacement related information for the second part.
- 16 21. (Original) A system according to claim 20, further comprising:
 17 a computing device comprising a processor capable of being directed to process
 18 commands stored in a program memory, and an input/output port;
- 19 wherein
- 20 the scanner is in communication with the input/output port,
- the browsing arrangement is provided as a first sequence of program
 commands stored in the program memory for execution by the processor, and



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the scanner interface is provided as a second sequence of program commands stored in the program memory for execution by the processor, where the scanner interface receives the scanned associated identifier through the input/output port and provides such identifier to the browsing arrangement.

- 22. (Original) A system according to claim 20, wherein the scanner is incorporated into the computing device.
- 7 23. (Previously Presented) A system, comprising:
 8 means for scanning an associated identifier of a first part by the end user;
 9 means for automatically coupling by a scanner interface the scanned identifier of
 10 the first part to a network enabled browser;
 - means for automatically connecting by the browser over a network connection to a remote database to retrieve replacement related information for the first part, determining a replacement dependency between the first part and a second part which should be replaced along with the first part, and automatically retrieving, based at least in part on the determined replacement dependency, replacement related information for a second part, such database searchable by the associated identifier; and
- means for automatically displaying by the browser for the end user the retrieved replacement related information for the first part.
- 24. (Original) A system according to claim 23, further comprising:
 means for obtaining at least one user preference; and

1	means for arranging the retrieved replacement related information according to
2	the at least one user preference.
3	25. (Previously Presented) A method for determining part replacement
4	related, comprising:
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5	obtaining an identifier of a first part with a scanner communicatively coupled to
6	an expert system;
7	automatically connecting by the expert system over a network connection to at
8	least one remote database to retrieve, based at least on the identifier, replacement
9	related information for the first part;
10	determining a replacement dependency between the first part and a second part
11	which should be replaced along with the first part;
12	automatically connecting by the expert system over the network connection to
13	the remote database to retrieve, based at least in part on the determined replacement
14	dependency, replacement related information for the second part;
15	receiving candidate results from the at least one remote database; and
16	processing by the expert system of the candidate results to identify one or more
17	replacements for the first part.
18	26. (Original) The method of claim 25, wherein the replacement related
19	information for the first part includes replacement related information for a second part
20	suggested to be replaced along with the first part.

27. (Original) The method of claim 25, further comprising:

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1	displaying in a web browser a web page identifying the one or more				
2	replacements for the first part.				
3	28. (Original) The method of claim 25, further comprising:				
4	obtaining at least one user preference; and				
5	culling by the expert system of retrieved replacement related information				
6	according to the at least one user preference.				
7	29. (Original) The method of claim 28, wherein the user preference is a				
8	selected one of limiting price, limiting distance to travel to obtain a replacement part,				
9	limiting shipping time for the replacement part, limiting time to effect part replacement,				
10	and only displaying a vendor having the replacement part in stock.				
11	30. (Original) The method of claim 29, further comprising:				
12	displaying in a web browser a web page identifying the one or more				
13	replacements for the first part satisfying the at least one user preference.				
14	31. (Previously Presented) A method for locating a replacement part for ar				
15	item having one or more replaceable parts, comprising:				
16	determining an identifier for a part requiring replacement;				
17	providing the identifier to a network application program communicatively				
18	coupled with a database searchable by at least the identifier, the database associating				

the part with related parts of the item, if any, that have a replacement dependency with

the part and therefore should be replaced along with the part; and

1	retrieving replacement information from the database for the part and related			
2	parts of the item, if any, that should be replaced along with the first part.			
) з	32. (Original) The method of claim 31, wherein related parts associated			
4	with the part, if any, are recommended by a manufacturer to be replaced along with the			
5	part.			
6	33. (Original) The method of claim 31, further comprising:			
7	scanning the identifier with a scanner; and			
8	automatically coupling the scanner to the network application program to provide			
9	the identifier thereto.			
10	34. (Original) The method of claim 31, further comprising:			
11	displaying the replacement information to an end-user.			
12	35. (Original) The method of claim 31, wherein the identifier of the part is a			
13	selected one of a UPC identifier, product-identifier mark, and textual product identifier.			
14	36. (Original) The method of claim 31, further comprising:			
15	receiving a restriction; and			
16	identifying at least one portion of the retrieved replacement information satisfying			
17	the user restriction.			
18	37. (Original) The method of claim 31, further comprising:			
19	obtaining a preference; and			
20	arranging the retrieved replacement information according to the preference.			



replacement part in stock.

	38.	(Original)	The method of claim 37, wherein the preference is a
select	ted one	of: limiting pr	rice, limiting distance to travel to obtain the replacement part,
limitin	g shipp	oing time for th	ne replacement part, limiting time required to install the
replac	ement	part, only disp	playing vendors having the replacement part in stock, and
only o	lisplayi	ng vendors st	ocking the replacement part and related parts, if any, that
shoul	d be re	placed along	with the first part.
	39.	(Original)	The method of claim 38, further comprising:
	categ	orizing the ret	rieved replacement related information into plural categories;
and		•	
	sorting	g the categori	es according to the preference.
	40.	(Original)	A method according to claim 37, further comprising:
	categ	orizing the ret	rieved replacement related information into plural categories.
	41.	(Original)	The method of claim 31, further comprising:
	deterr	mining source	s from which the replacement part may be obtained;
	identi	fying, based a	t least in part on the replacement information, at least one
sourc	e havin	g the replace	ment part in stock; and

presenting the sources from which the replacement part may be obtained, said

presenting including prominently displaying the at least one source having the

42.	(Orig	inal)	The method of claim 31, wherein prominently displaying			
includes s	orting the	e source	es from which the replacement part may be obtained so that			
the at least one source having the replacement part in stock is provided before sources						
not having	g the repl	lacemen	t part in stock.			
43.	(Orig	inal)	The method of claim 31, further comprising:			
rec	eiving an	oral utt	erance; and			
100	nverting t	he oral ι	utterance into the identifier.			
44.	(Orig	inal)	The method of claim 31, further comprising:			
pro	viding th	e identif	ier to the network application program in a selected one of			
the follow	ing forma	ats: a ba	r-code format, a product-identifier mark, and a verbal			
identifier.						
45.	(Orig	inal)	The method of claim 31, further comprising:			
def	termining	an equi	ivalence identifier for a substitution part which may be used to			
replace th	e part;					
pro	viding th	e equiva	alence identifier to the network application program			
communic	catively c	oupled v	with the database, the database also searchable by the			
equivalence identifier;						
46.	. (Orig	inal)	The method of claim 31, further comprising:			
def	termining	an equi	ivalence identifier for a substitution part which may be used to			
replace th	e part;					

provid	ding the identi	ifier to the network application program communicatively			
coupled with	coupled with a equivalence database searchable by at least the equivalence identifier,				
the equivale	nce database	associating the substitution part with related substitute parts			
of the item, i	f any, that sh	ould be replaced along with the first part.			
47.	(Original)	The method of claim 46, wherein the database and the			
equivalence	database are	e separate databases.			
48.	(Original)	The method of claim 38, further comprising:			
sema	ntically analy:	zing the retrieved replacement information; and			
reorga	anizing the re	trieved replacement information according to the analyzing.			
49.	(Original)	The method of claim 31, further comprising:			
deteri	determining a geographic location for the part;				
identi	identifying vendors of the replacement part, each vendor having a geographic				
location; an	d				
sortin	g the vendors	s according to their geographic proximity to the part.			
50.	(Original)	A method according to claim 31, further comprising:			
provid	ding a proximi	ity preference, such preference set to a user election if such			
election has been made, otherwise to a default value; and					
culling	g the retrieved	d replacement information according to the proximity			
preference.					
51.	(Original)	The method of claim 31, further comprising:			

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	2	identifying vendors of the replacement part based at least in part on the retrieved				
. (3	replacement information;				
0/	4	identifying a sales price offered by said vendors for the replacement part; and				
V	5	culling the retrieved replacement information according to the user-specified				
•	6	price terms.				
	. 7	52. (Original) The method of claim 31, further comprising:				

retrieving from the database replacement related concerns, such concerns including warnings and suggestions for a user seeking to replace the part; and displaying the replacement related concerns.

receiving user-specified price terms for a replacement part for the part;

- 11 53. (Original) The method of claim 52, wherein an expert system 12 interactively displays the replacement related concerns.
- 13 54. (Previously Presented) An article comprising a machine-accessible
 14 media having associated data, wherein the data, when accessed, results in a machine
 15 performing:
- determining an identifier for a part requiring replacement;
 - providing the identifier to a network application program communicatively coupled with a database searchable by at least the identifier, the database associating the part with related parts of the item, if any, that have a replacement dependency with the part and therefore should be replaced along with the part; and

1 retrieving replacement information from the database for the part and related 2 parts of the item, if any, that should be replaced along with the first part. 3 55. (Original) The article of claim 54 wherein the machine-accessible media further includes data, when accessed, results in the machine performing: 5 scanning the identifier with a scanner; and 6 automatically coupling the scanner to the network application program to provide 7 the identifier thereto. 8 56. (Original) The article of claim 54 wherein the machine-accessible 9 media further includes data, when accessed, results in the machine performing: 10 determining sources from which the replacement part may be obtained; 11 identifying, based at least in part on the replacement information, at least one 12 source having the replacement part in stock; and 13 presenting the sources from which the replacement part may be obtained, said presenting including prominently displaying the at least one source having the 14 15 replacement part in stock. 16 57. (Original) The article of claim 54 wherein the machine-accessible 17 media further includes data, when accessed, results in the machine performing: 18 receiving an oral utterance; and converting the oral utterance into the identifier. 19

58. (Original) The article of claim 54 wherein the machine-accessible media further includes data, when accessed, results in the machine performing:

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determining an equivalence identifier for a substitution part which may be used to 1 2 replace the part; 3 providing the equivalence identifier to the network application program communicatively coupled with the database, the database also searchable by the 4 5 equivalence identifier; 6 59. (Original) The article of claim 54 wherein the machine-accessible 7 media further includes data, when accessed, results in the machine performing: 8 determining a geographic location for the part; 9 identifying vendors of the replacement part, each vendor having a geographic 10 location; and 11 sorting the vendors according to their geographic proximity to the part. 12 60. The article of claim 54 wherein the machine-accessible (Original) 13 media further includes data, when accessed, results in the machine performing: 14 providing a proximity preference, such preference set to a user election if such 15 election has been made, otherwise to a default value; and 16 culling the retrieved replacement information according to the proximity 17 preference. 18 61. The article of claim 54 wherein the machine-accessible (Original) 19 media further includes data, when accessed, results in the machine performing:

receiving user-specified price terms for a replacement part for the part;

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identifying vendors of the replacement part based at least in part on the retrieved replacement information;

identifying a sales price offered by said vendors for the replacement part; and culling the retrieved replacement information according to the user-specified price terms.

62. (Original) The article of claim 54 wherein the machine-accessible media further includes data, when accessed, results in the machine performing: retrieving from the database replacement related concerns, such concerns including warnings and suggestions for a user seeking to replace the part; and

displaying the replacement related concerns.

- 63. (Previously Presented) A system for locating a replacement part for an item having one or more replaceable parts, comprising:
- a scanner for scanning an identifier for a part requiring replacement; and a device operating a network application program communicatively coupled with a database searchable by at least the identifier, the database associating the part with related parts of the item, if any, that have a replacement dependency with the part and therefore should be replaced along with the part; the network application program configured to retrieve replacement information from the database for the part and related parts of the item, if any, that should be replaced along with the first part.
- 20 64. (Original) The system of claim 63, wherein the scanner is incorporated 21 into the device.

	1	65. (Original)	The system of claim 63, wherein the scanner is wirelessly	
	2	communicatively coupled with the device.		
//	3	66. (Original)	The system of claim 63, further comprising:	
<i>J</i> 1	4	an input for the device from which may be received a restriction; and		
	5	wherein the network application program operates to identify at least one portion		
	6	of the retrieved replacement information satisfying the user restriction.		
	7	67. (Original)	The system of claim 63, further comprising:	
	8	an input for the device from which may be received a preference; and		
	9	wherein the network application program operates to arrange the retrieved		
1	0	replacement information according to the preference.		
1	1	68. (Original)	The system of claim 63, further comprising:	
1	2	an input for the device from which may be received an oral utterance; and		
1	3	conversion logic communicatively coupled to the input and the device for		
1	4	converting the oral utterance into the identifier.		
1	5	69. (New) The m	ethod of claim 31, the method further comprising:	
)_	6	providing questions to the network application program regarding circumstances		
	7	surrounding a failure, and receiving a response thereto;		
18		determining based on the response that the part requiring replacement is not		
1	9	broken but that an other part is instead broken; and		
2	20	retrieving replacement information for the other part.		
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